

Figure 1

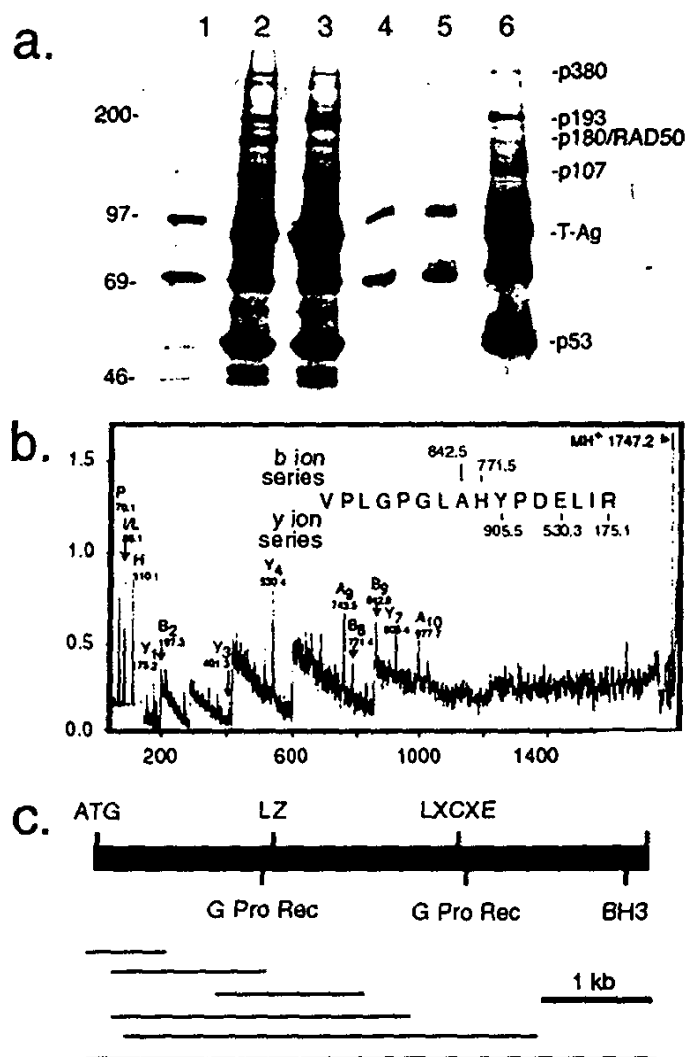


FIGURE 2

a.

MVGELRYREFRVPLGPGLHAYPDELIRQVRVGHNGHPEYQIRWLILRRGDD 50
 GDRDSTVDCKAEHILLWMSDDEIYANCHKMLGENGQVIAPSRSTEAGAL 100
 DKSVLGEMETDVKSILQRALRQLEECVGTVPAPLLHTVHVLSAYASIEP 150
 LTGIFKDRRVVNLMLHMLSSPDYQIRWSAGRMIALSSHDAGTRTQILLS 200
 LSQQAIEKHLDFDSRCALLALFAQATLTEHPMSFEGVQLPQVPGRLLFS 250
 LVKRYLHVTFLLDRLNGDAGDQGAQNNFSPEELNVGRGRLELEFSMAMGT 300
 LISELVQAMRWGASSRPSSSSSTFQPRPAQFRPYTQFRFRSRRFRPRA 350
 SFASFNTYALYVRDTRLPGMRVRMLENYEEIAAGDEGQFRQSNQGVPPAQ 400
 VLWDSTGHTYVWHWMLEILGFEEIEDVIDIEELQELGANGALSIVPPS 450
 QRWKPIQOLFAEPYVVPPEEDREESNLQAEWWELLFFIRQLSEAERLH 500
 IVDLLQDHLLEEERVLDDYDMLPELTPVDLAQDLLLLSLPQQLEDSALRDLF 550
 SCSVYRKYGPVVLVGHLSYFPVPGAQPNLFGANESEAKOPPLQASAPAL 600
 QRLVESLGPEGEVLVELEQALGSEAPQETEVKSCLLQLQEQQPFLALMR 650
 SLDTASANKTLHLTVLRILMQLVNFPEALLPWHEAMDACVTCLRSPNTD 700
 REVQLQLIFFLHRLTTSTRDYAVILNQHGARDAISKVLEKHRGKLELAQE 750
 LRDMVSKCEKHAHLRKLTTNIGGCIQMVLGQIEDHRRTHRP IQIPFFD 800
 VFLRYLCQGSSEEMKKNRYWEKVEVSSNPQRASRLTDNRNPKTYWESSGRA 850
 GSHFITLHMRPGVIRQLTLLVAGEDSSYMPAWVVVCGGNSIKSVNKELN 900
 TVNVMPASASRVTLLENLTRFWPIIQIRIKRCQQGGINTRIRGLEVLGPKP 950
 TFWPVFREQLCRHTRLRFYMVRAQAWSQDIAEDRRSLHLSSRLNGALRHE 1000
 QNFARFLPDMEAAQALSKTCWEALVSPLVQNITSPDEDSTSSLGWLLDQ 1050
 YLGCREAAYNPQSRAAAFSSRVRLTHLLVHVEPREAAPPVVAIPRSKGR 1100
 NRIHDWSYLITRGLPSSIMKNLTRCWSVVEEQMNKFLSASWKDDDFVPR 1150
 YCERYVVLQKSSSELFGPRAAFLAMRNGCADAVRRLPFLRAAHVKQOFA 1200
 RHIDQRIQGSRMGGARGMEMLAQLQRCLESVLIFSPLFIATTFEHYYQHY 1250
 MADRLLSVGSSWLEGAVLEQIGPCFPSRLPQQMLQSLNVSEELQRQFHVY 1300
 QLQQLDQELLKLEDETEKKIQVAHEDSGREDKSKKEEAIGEAAVAMAE 1350
 DQKGKEEGEEGEDEEBEERYKGTMPVCVLVVTFRFWPVASVCQMLN 1400
 PATCLPAYLRGTINHYTNFYSKSQSRSSLEKEPQRRQLQWTWQGRAEVQFG 1450
 GQILHVSTVQMWLLHLNNOKEVSVESLQAISELPPDVLHRAIGPLTSSR 1500
 GPLDLQEKNVPGGVVLKIRDDSEEPRRGNVWLIPPQTYLQAEAEGRN 1550
 MEKRRNLLNCLVVRILKAHGDEGLHVDRLVYLVLAEWEKGPCPARGLVSS 1600
 LGRGATCRSSDVLSCILHLLVKGTLRRHDDRQVLYYAVPVTVMEPHMS 1650
 LNPGSAGPNPPLTFHTLQIRSRGVPYASCTDNHTFSTFR 1689

b.

p193: LKAHGDE
 Hrk: LKALGDE
 Bim: LRRIGDE
 Bik: LACIGDE
 Bid: LAQIGDE
 Blk: LACIGDE
 EGL-1: LAAMCDD
 BAD: LRRMSDE
 BNIP-3: LKKNSDW

a.

Protein	Lane 1	Lane 2	Lane 3	Lane 4
α-myc	Band at ~116 kDa	Band at ~116 kDa	Band at ~116 kDa	Band at ~116 kDa
α-T-Ag	Band at ~97 kDa	Band at ~97 kDa	Band at ~97 kDa	Band at ~97 kDa

IVT p193	+	+	+	+
T-Ag	+	+	+	-
Tot. Pro.	+	-	-	-
T-Ag IP	-	+	-	+
Cont. IP	-	-	+	-

p193			-200
(Autorad)			-116
T-Ag			-97
(Western)			-66

Figure 4

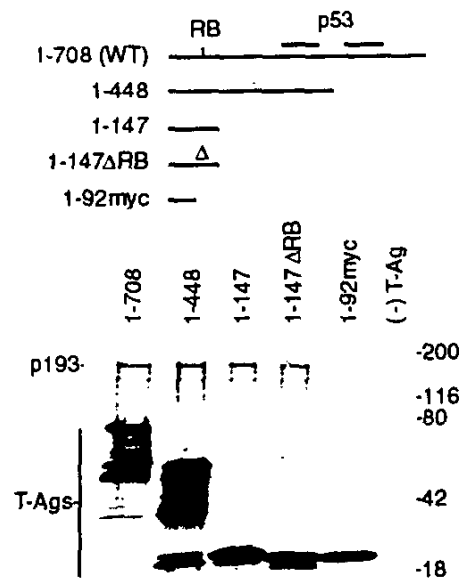


Figure 5.

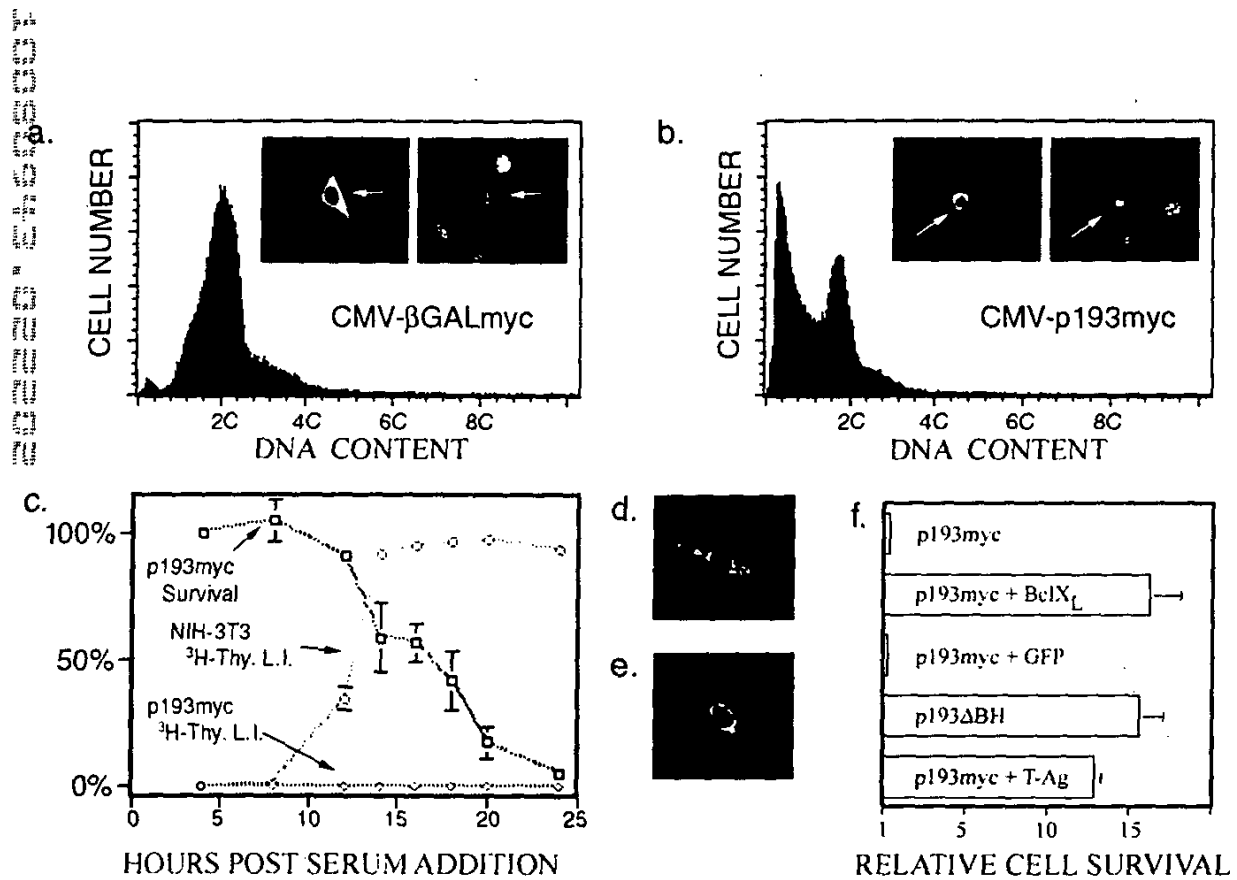


Figure 6

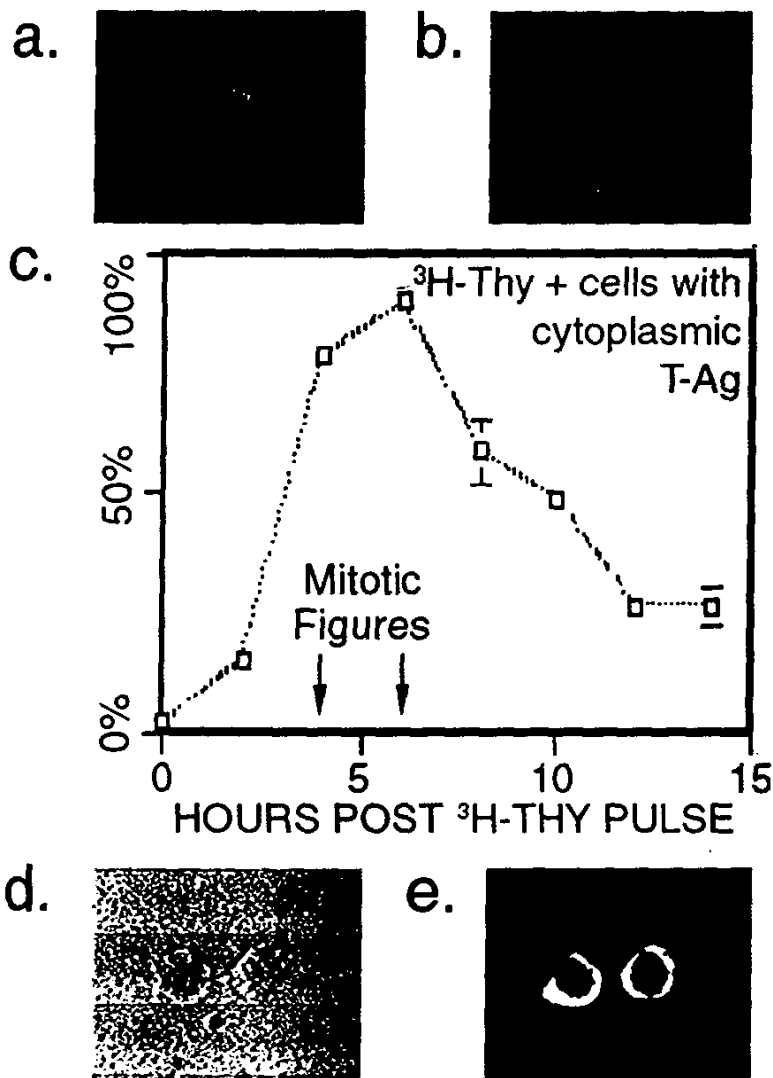
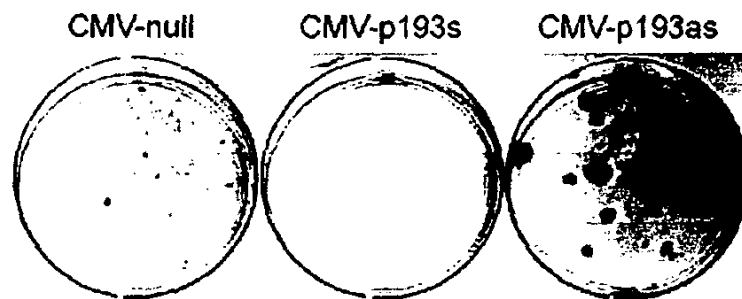


Figure 7.

A. NIH-3T3 colony growth assay:

- Transfect with various constructs
- Impose G418 selection
- Stain with gentian violet



B. RT-PCR analysis:

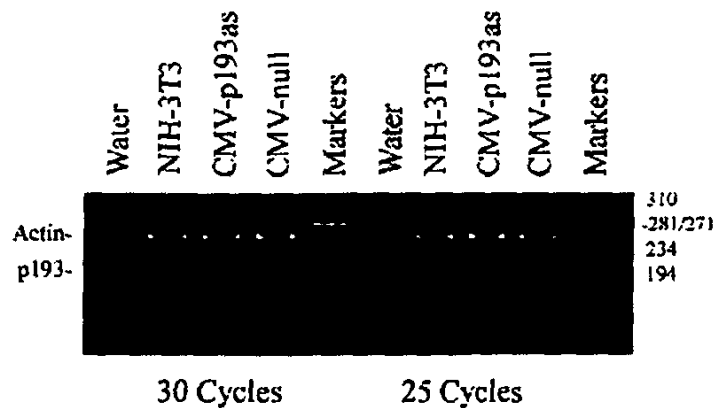
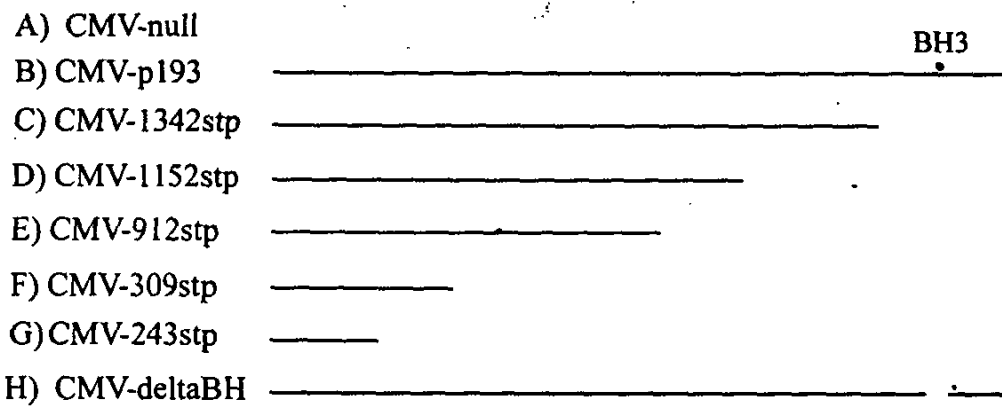


Figure 8.

A: Structure of CMV expression vectors with nested p193 C-terminal truncations.



B: Colony growth assay.

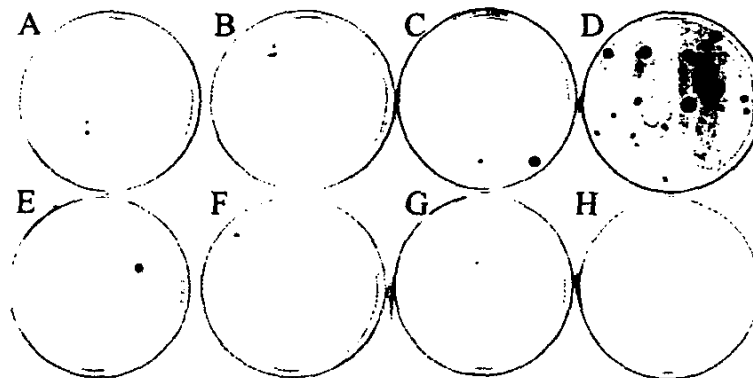


Figure 8C

p193dn Blocks MMS-induced Apoptosis
in NIH-3T3 Cells:

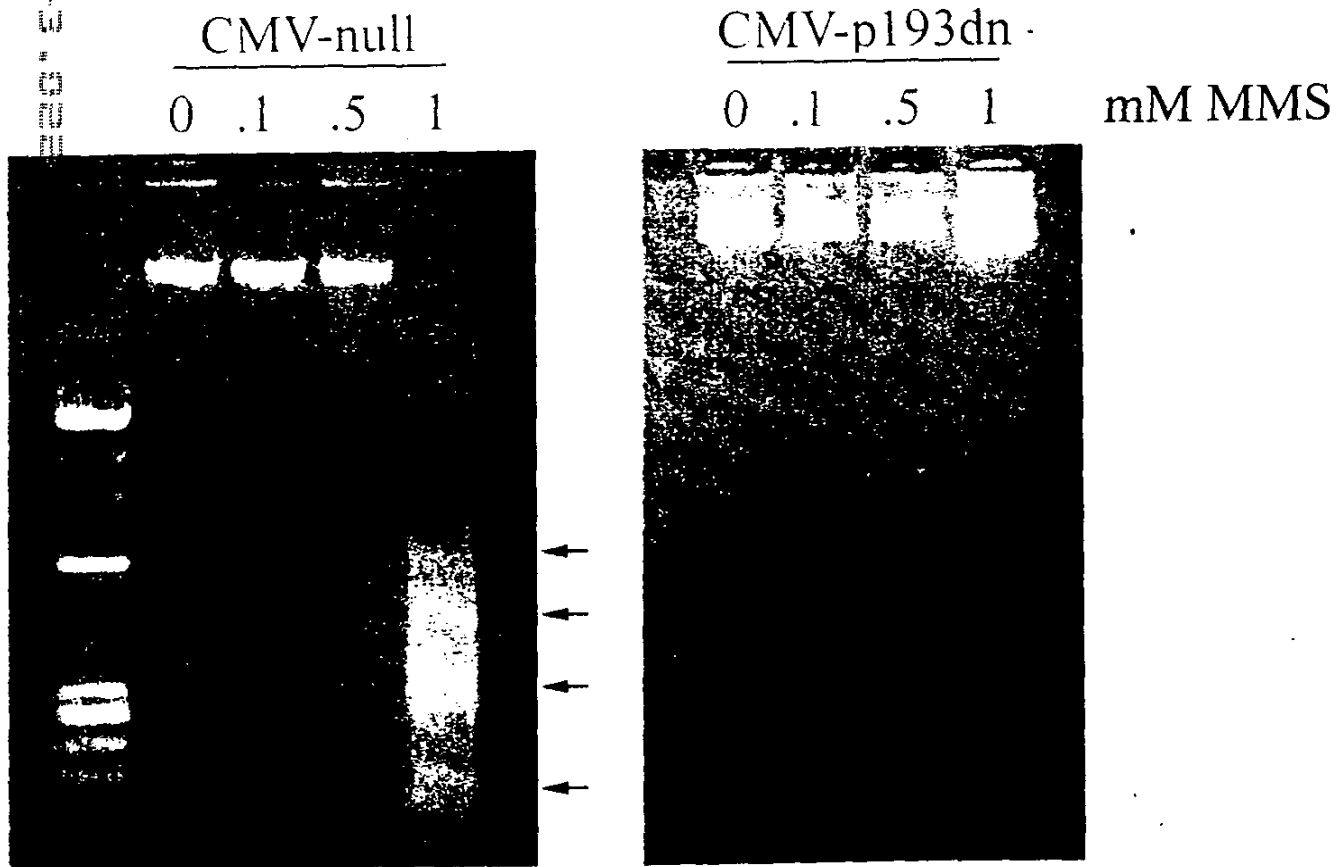


Figure 9.

MHC-p193dn Transgene

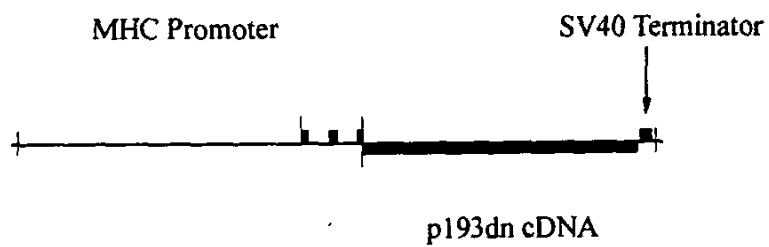


Figure 10.

Northern Blot of transgene expression in MHC-p193dn transgenic mice

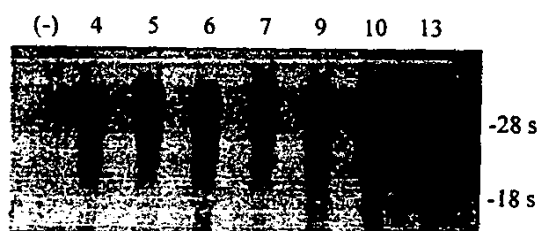


Figure 11.

A.



B.



C.



D.



Figure 12

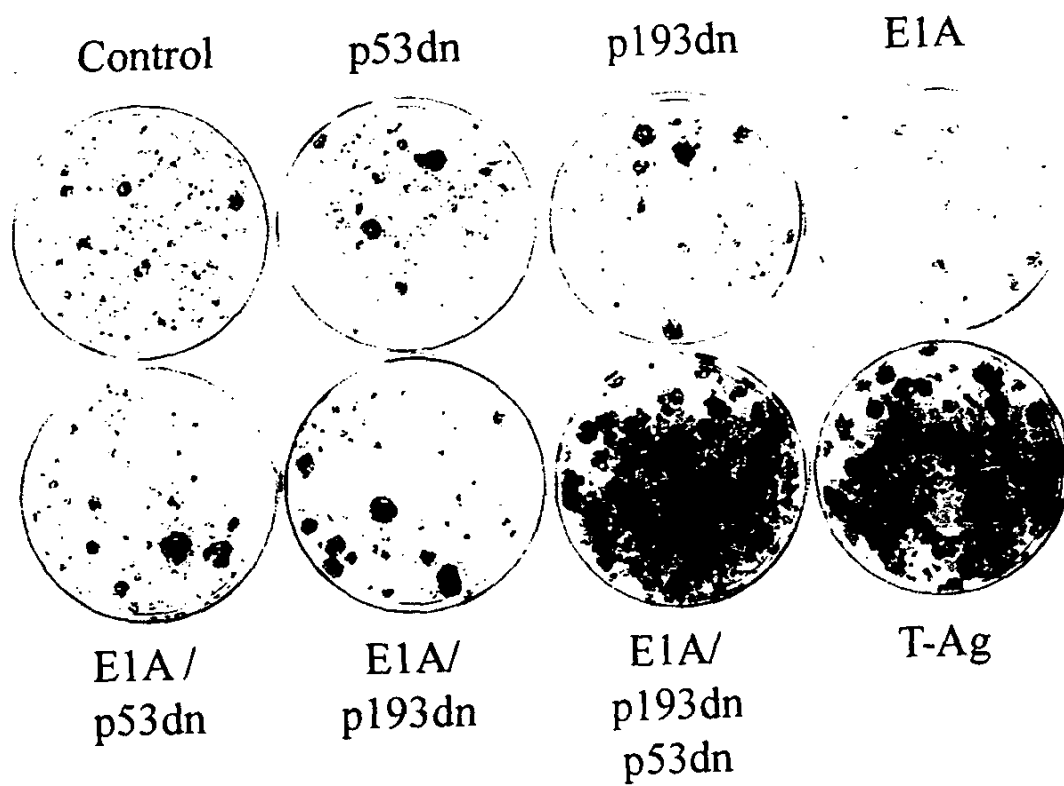
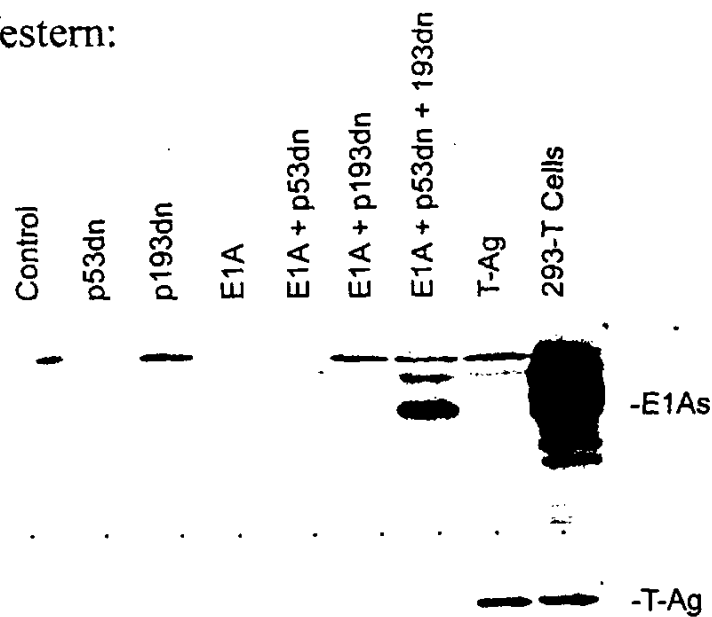


Figure 13

A) Western:



B) DNA Fragmentation:

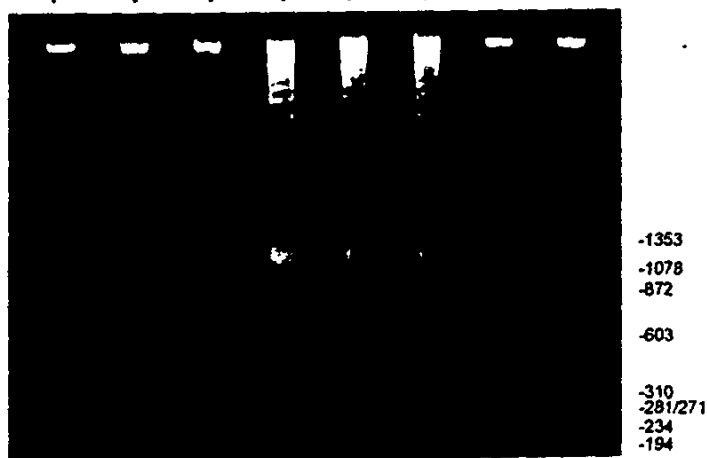
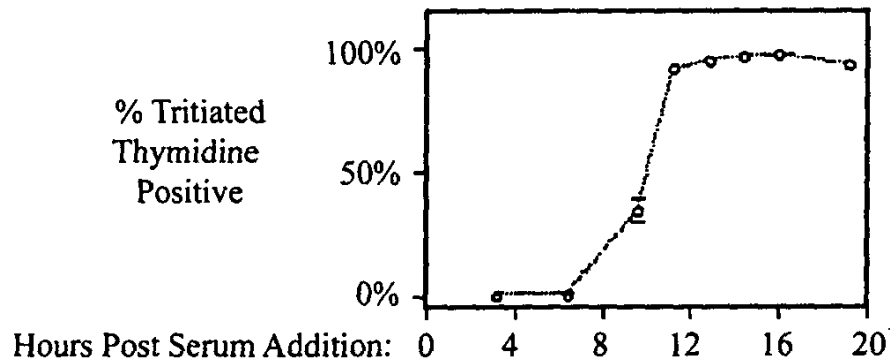


Figure 14

p193 is Expressed in G₁/S of the Cell Cycle:

A) Cell Cycle Synchronization:



B) Western Analysis of p193 Expression:

Hours Post Serum Addition:

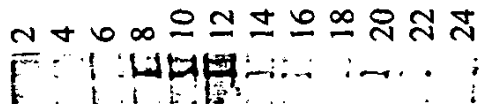


Figure 15

Isoproterenol induces growth in cardiomyocytes
which co-express p193dn and p53dn.

- ISO

+ ISO

